

6th Symposium on the Impacts of an Ice-Diminishing Arctic on Naval and Maritime Operations 2015

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The impact of the diminishing ice on the operational environment Seen from the perspective of the Danish Defense

TASKS



JOINT ARCTIC COMMAND

 Military defense of Greenland and Faroe Island Surveillance and maintenance of territorial sovereignty • Search and Rescue Anti-pollution and oil spill recovery Police support Fishery Protection Hydrographical surveys of Greenland Support to local communities



Analysis of the Danish Ministry of Defense's Future Missions and Tasks in the Arctic.



Identify future tasks and needed capabilities within Joint Arctic Command Area of responsibility and interest.



Serve as basis for future initiatives within the present Defense Agreement and in relation to future defense agreements.



The results of the analysis will be put down in a report which will include recommendations of possible ways and means to strengthen the Ministry of Defense's operations in the Arctic.

Whole of Government (Kingdom) Approach

Greenland and the Faeroes, 30+ departments and agencies, 130+ analysts

Mission-areas in the analyses

- Surveillance (land, sea, air, sub-surface)
- Upholding sovereignty
- Search and rescue
- Pollution control/oil spill response
- Safety at sea
- Support to civilian society
- Local recruiting
- Organizing volunteers
- Tests and trials



Our mandate

Recommend within which areas and at what pace the Ministry of Defence's engagement in the Arctic shall be strengthened including looking at:

- Potential new operational tasks
- Infrastructure
- Logistic support
- Command and control systems
- Communications systems
- Training and education
- Involvement of local population
- Cooperation with other ministries and agencies
- Cooperation with relevant Arctic nations

- Cooperation with civilian stakeholders
- Satellites
- Aircraft incl. fighters
- Unmanned Aerial Vehicles
- Data processing and exchange
- Maritime survey and mapping
- Conducting test and trials to compliment the analysis



For each mission-area:

- Future task
- Future level of ambition
- Propose needed capabilities

Tests and trials



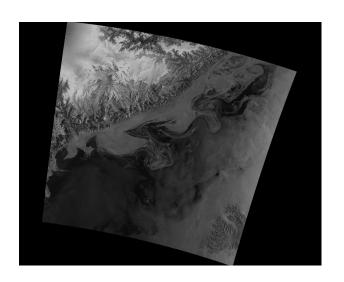












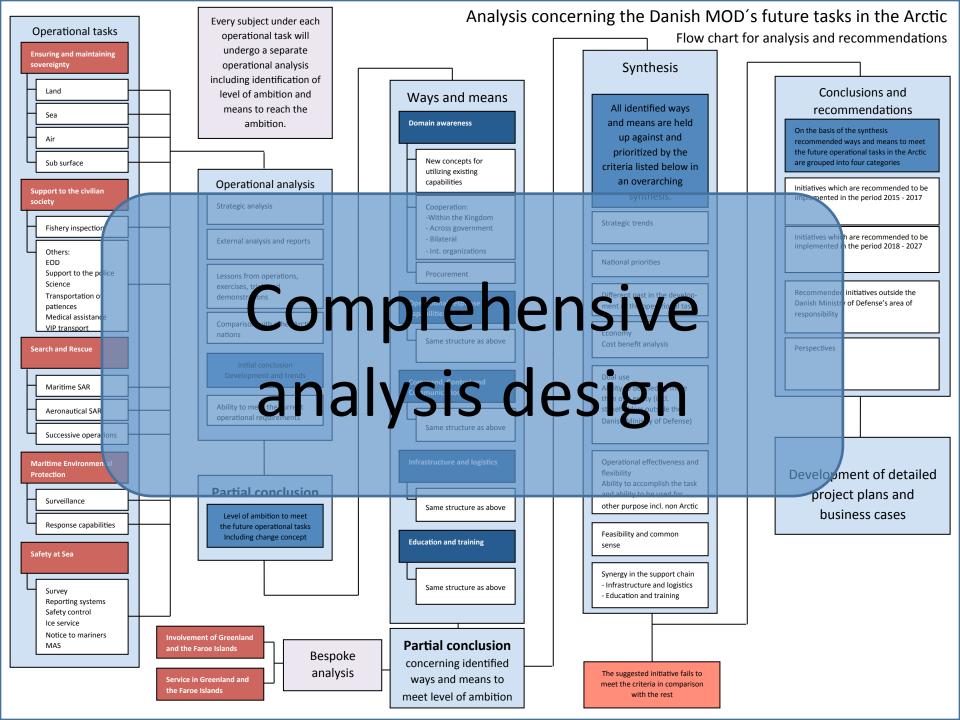






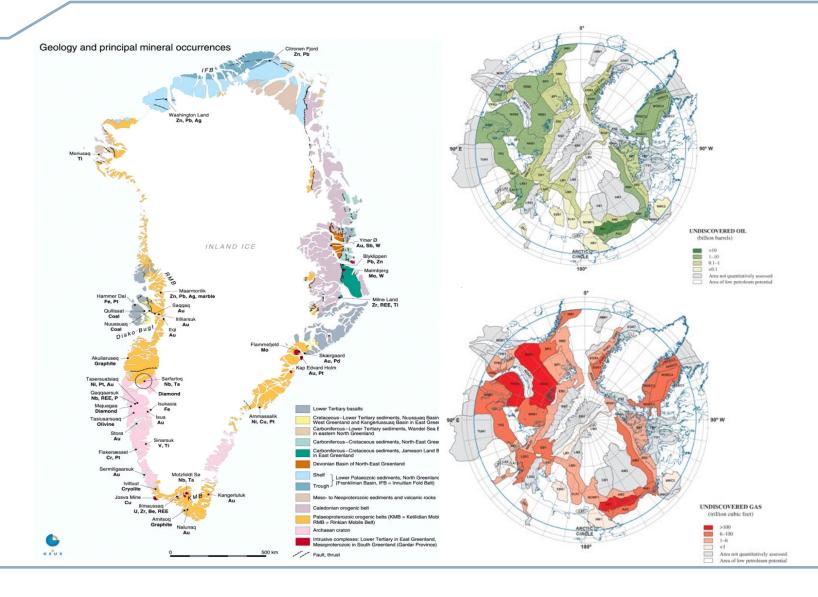


- Initiatives recommended to be implemented in the period 2015-2017
- Initiatives recommended to be implemented in the period 2018-2027
- Recommended initiatives outside the Danish Ministry of Defence's area of responsibility
- Perspectives recommendations for further analysis

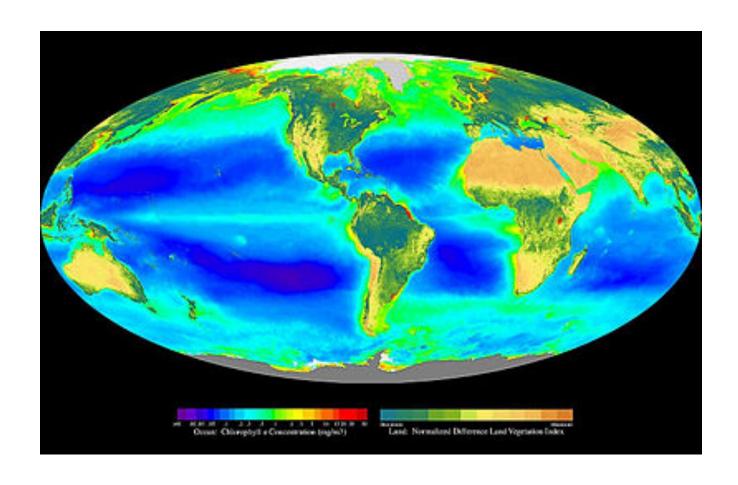


Potentials

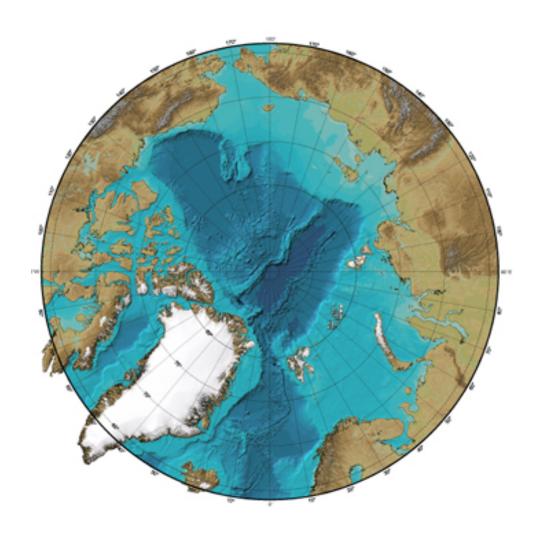












Potentials













Economic opportunities in the Arctic













With great opportunities comes great responsibilities

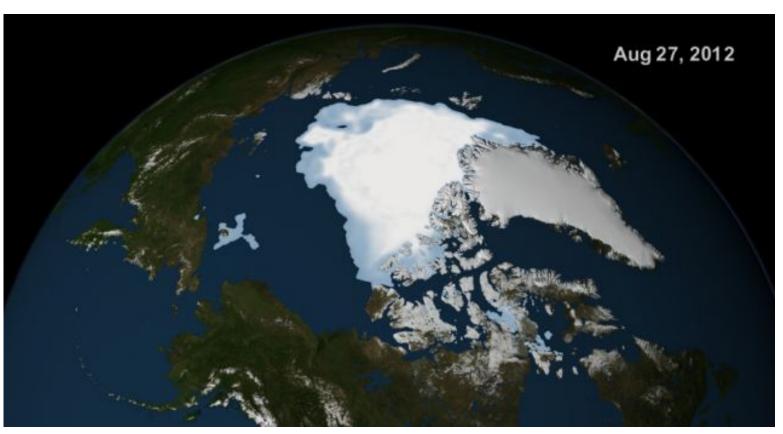










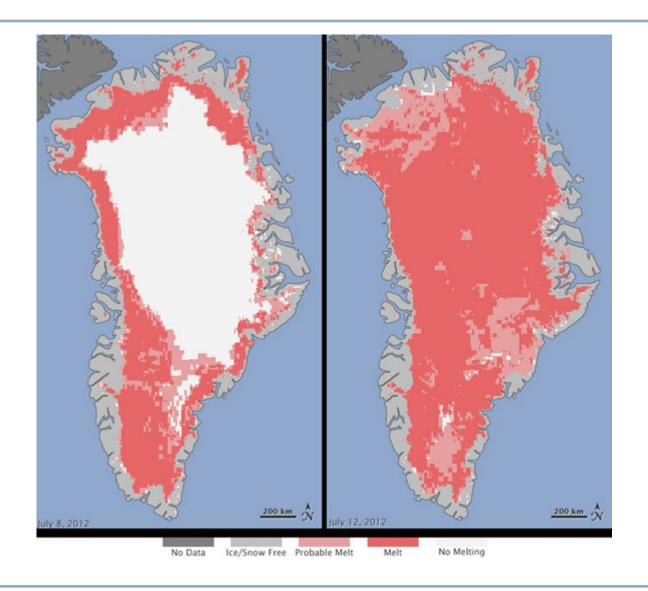


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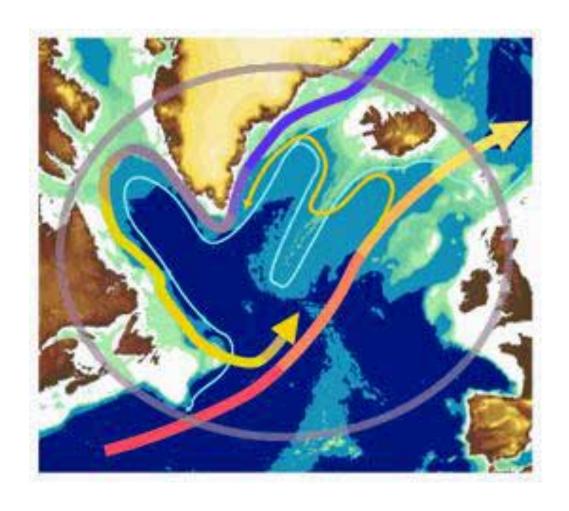








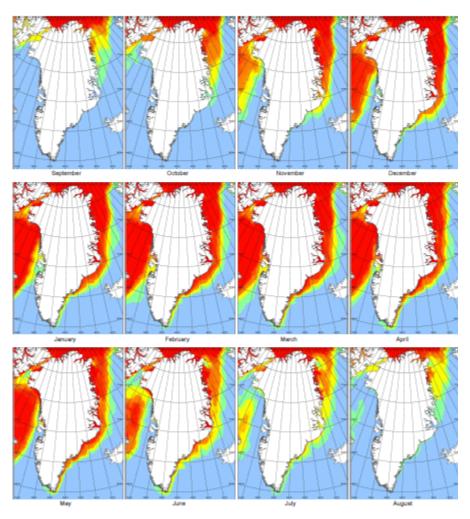




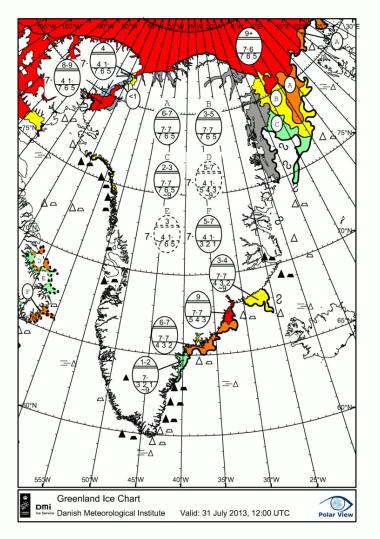


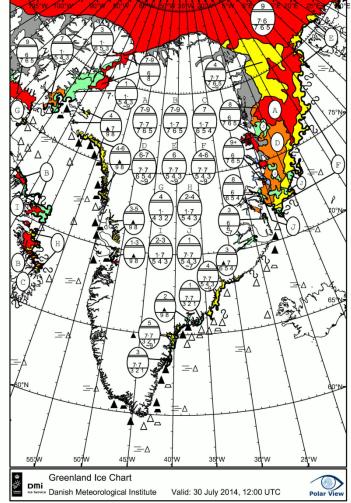
Monthly Mean Ice Concentration

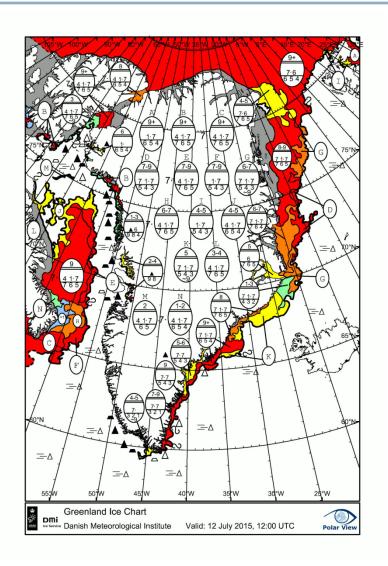
from Greenland Overview Ice Charts 2000 - 2010



Late July 2013 vs. 2014







Observations



- Changes in the operational environment in the maritime domain of Greenland is not happening as quickly as we initially thought
- Consequently the diminishing ice in Arctic as a whole has so far had limited impact on the activities in and around Greenland
- Commercial activities in Greenland are very sensitive to changes in and expectations to the world's market prices
- In the short term tourism and fishery hold the greatest economical potentials
- Due to the unpredictability in the changes in the activities in and around Greenland and a limitation in resources the Danish Defense's future capabilities in the Arctic will have to be very flexible in every possible way
- To support and enable this flexibility Maritime Domain Awareness and communication will be paramount for future operations in the Arctic
- Great potentials in achieving a higher operational effectiveness and flexibility lie within the ability to identify opportunities of cross agencies national and international cooperation

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2020: THE TERRITORIAL DISPUTE OVER HANS ISLAND IS RESOLVED BY THE MELTING OF THE ARCTIC ICE CAP.

